





CONVEYOR SPECIFICATION

CONV. NO.	CV-1008
BELT WIDTH IN mm	1400
C/C DISTANCE	169173 mm
LIFT IN M	45200 mm
CAPACITY RATED	1000 TPH
CAPACITY DESIGN	1200 TPH
BELT SPEED (m/sec.)	1.5
TYPE OF TAKE-UP	VTU
TAKE-UP TRAVEL	5000 mm.
ANGLE OF WRAP	210°(Max.)
MATERIAL	BAUXITE
BULK DENSITY IN T/M ³	1.3
LUMP SIZE(MAX)	(-)25 mm
MOISTURE CONTENT	9-17%
TENSION AT	36742
TAIL PULLEY (N)	
MAX.WORKING TENSION(T1)N	179289.14
SLACK SIDE TENSION(T2)N AT DRIVE PULLEY	49369.47
EFFECTIVE TENSION (T _E)N	129919.67
TYPE	NYLON/NYLON
GRADE	M-24 IS : 1891
RATING	1600/5
TOP COVER mm	8
BOTTOM COVER mm	5
DUTY	HD

LOAD TABLE (FOR INFORMATION ONLY)						
POINT	VERTICAL LOAD (IN T.)		HORIZONTAL LOAD IN T.			
	CASE-I	CASE-II	ALONG THE CONV.	CASE-I	CASE-II	CASE-I
F1	(-) 4.5	(-) 6.5	(-) 3.5	(-) 5.6	(-) 0.1	(-) 0.1
F2	(-) 5.0	(-) 7.0	(-) 3.5	(-) 5.6	(-) 0.1	(-) 0.1
F3	(+) 5.0	(+) 7.0	(-) 3.5	(-) 5.6	(-) 0.1	(-) 0.1
F4	(+) 4.5	(+) 6.5	(-) 3.5	(-) 5.6	(-) 0.1	(-) 0.1
F5	(-) 4.5	(-) 7.5	(+) 2.2	(+) 3.5	(+) 0.1	(+) 0.1
F6	(+) 3.5	(+) 5.0	(+) 2.2	(+) 3.5	(+) 0.1	(+) 0.1
F7	(+) 3.0	(+) 4.5	(+) 2.2	(+) 3.5	(+) 0.1	(+) 0.1
F8	(+) 1.0	(+) 1.0	-	-	-	-
F9	(+) 1.2	(+) 0.5	(+) 0.1	(+) 0.15	-	-
F10	(+) 3.0	(+) 3.0	(-) 3.0	(-) 4.5	(+) 0.1	(+) 0.1
F11	(+) 3.0	(+) 3.0	(+) 3.0	(+) 3.5	(+) 0.1	(+) 0.1

SIGN CONVENTION
(V) VERTICAL LOAD UPWARD (-) DOWNWARD (+)
(H) HORIZONTAL LOAD TOWARDS HEAD PULLEY(+) TOWARDS TAIL PULLEY(-)
REVERSIBLE LOAD (+/-)
CASE-I: CONVEYOR NORMAL RUNNING + CHUTE BLOCKED
CASE-II: CONVEYOR STOPPING + CHUTE EMPTY

60	HAND RAIL	PPC (S118)		
59	STAIRS	IS:2062		
58	PULL CORD WIRE #8 (PVC COATED) WITH HOOKS	352 m		NOT SHOWN IN DRG.
57	RUBBER CURTAIN FOR SKIRT	1	RUBBER	
56	RUBBER CURTAIN FOR CHUTE	1	RUBBER	
55	TAIL PULLEY GUARD	1	IS:2062	
54	LOW SPEED SIDE GUARD	1	IS:2062	
53	HIGH SPEED SIDE GUARD	1	IS:2062	
52A	STD. SHORT POST	22	IS:2062	
52	STD. SHORT POST	25	IS:2062	
51A	NON STD. SHORT POST	1	IS:2062	
51	NON STD. SHORT POST	1	IS:2062	
50	NON STD. SHORT POST	1	IS:2062	
49	NON STD. SHORT POST	1	IS:2062	
48	NON STD. SHORT POST	1	IS:2062	
47	NON STD. SHORT POST	1	IS:2062	
46	NON STD. SHORT POST	1	IS:2062	
45	NON STD. SHORT POST	1	IS:2062	
44	NON STD. SHORT POST	1	IS:2062	
43	NON STD. SHORT POST	1	IS:2062	
42	NON STD. SHORT POST	1	IS:2062	
41	NON STD. STRINGER	1	IS:2062	
40	STD. STRINGER (6000mm)	20	IS:2062	
39	STD. STRINGER (3000mm)	10	IS:2062	
38	WIRE ROPE FOR CW.WT.SUSPENDER	LOT	STD.	
37	LIMIT SWITCH	2		
36	NON STD. STRINGER	1	IS:2062	
35	NON STD. STRINGER	1	IS:2062	
34	PULL CORD SWITCH WITH BKT.	6PAIRS	STD	JAYASHREE/JAY BALAJI
33	BELT SWAY SWITCH (2NO + 2NC) WITH BKT	4PAIRS	STD	JAYASHREE/JAY BALAJI
32	ZERO SPEED SWITCH (NON CONTACT TYPE) WITH BRACKET	1	STD.	JAYASHREE/JAY BALAJI
31	DISCHARGE CHUTE WITH HOOD	LOT	IS:2062	
30	DECK PLATE 315 mm THK.	LOT	IS:2062	
29	SKIRT, M.P. -10 mmTHK. & LINER- 40mm Rubber	1 ASSY.	IS:2062	
28	DRIVE FRAME	1	IS:2062	
27	BEND PULLEY FRAME	1	IS:2062	
26	TAIL PULLEY FRAME	1	IS:2062	
25	HEAD PULLEY FRAME	1	IS:2062	
24	MESH GUARD	1	IS:2062	
23	COUNTER WEIGHT (CAST IRON)	10 T	IS:2110	
22	COUNTER WEIGHT CARRIAGE FRAME	1	IS:2062	
21	PULLEY CARRIAGE FRAME	1	IS:2062	
20	VERTICAL GRAVITY TAKE UP GUIDE POST ARRANG.	1	ASSY.	
19B	EXTERNAL SCRAPER (SECONDARY) (MULTIPLE SPRUNG	1	ASSY.	KAVERY
19A	EXTERNAL SCRAPER (PRIMARY) (BLADE TYPE)	1	ASSY.	KAVERY
18	INTERNAL SCRAPER, V-PLOUGH TYPE	1	ASSY.	BTL
17	TROUGHING TRANSITION IDLER#152.4,3 ROLL X 20' X 25 dn	2	ASSY.	
16	S.A.RETURN IDLER 2 ROLL#152.4 x 10' x 25 dn,	6	ASSY.	
15	S.A.TROUGHING IDLER #152.4,3 ROLL X 35' X 25 dn	11	ASSY.	
14	RETURN IDLER 2 ROLL #152.4 x 10' x 25 dn,	51	ASSY.	
13A	IMPACT IDLER #190, 3 ROLL X 35' X 25 dn	6	ASSY.	
13	IMPACT PAD WITH IMPACT IDLER ASSY.	5	ASSY.	KAVERY
12	TROUGHING IDLER #152.4, 3 ROLL X 35' X 25 dn	151	ASSY.	
11	DEFLECTOR PULLEY #152 X 1600 X dn 35	1	ASSY.	
10	BEND PULLEY#630 X 1600 X dn 100 WITH TWO P/BLOCK SNA-518, BRG. 22222CK	2	ASSY.	10THK. RUBBER LAGGING
9	TAKE UP PULLEY#800 X 1600 X dn 160 WITH TWO P/BLOCK SD-3136, BRG. 23136CK	1	ASSY.	10THK. RUBBER LAGGING
8	SNUB PULLEY#630 X 1600 X dn 100 WITH TWO P/BLOCK SNA-518, BRG. 22222CK	2	ASSY.	10THK. RUBBER LAGGING
7	TAIL PULLEY#800 X 1600 X dn 160 WITH TWO P/BLOCK SD-3136, BRG. 23136CK	1	ASSY.	10THK. RUBBER LAGGING
6	DRIVE PULLEY#1000 X1600 X dn 220, WITH TWO P/BLOCK SD-3148, BRG. 23148CK	1	ASSY.	20 THK. CERAMIC LAGGING
5	LOW SPEED SIDE - GEARED COUPLING SIZE- ED-8400 (RATING 253.24 kW)	1	ASSY.	ELECON
4A	D.C. ELECTROMAGNETIC BRAKE WITH RECTIFIER (400 B/D) BRAKE TORQUE- 76Kg.m.	1	ASSY.	ELECTRAC
4	HIGH SPEED SIDE - FLUIDCOUPLING WITH BRAKE DRUM -(400 O/D) SIZE- T12-08B (RATING 228.0 kW)	1	ASSY.	FLUIDOMAT
3	GEAR BOX - BEVEL HELICAL WITH F.C & H.B. FRAME SIZE - B3-450	1	ASSY.	PREMIUM
2	MOTOR-220.0 KW / 300.0 HP, 1500 RPM, FRAME SIZE - 355 M	1	ASSY.	ALSTOM
1	BELTING -RATING-N/N-1600/5, M24 COVER THK. 8/5 mm L= 371M	1 LOT		HINDUSTAN RUBBER

LIST OF MATERIALS

NOTE:-
1. ALL DIMENSIONS ARE IN mm & LEVELS ARE IN m. U.O.S.
2. READ THIS DRG. IN CONJUNCTION WITH STRUCTURAL G.A. DRG. NO- A/1017/NALCO/BC/GA-03(SHT. 1 OF 2)
3. FOR INFEED CHUTES FROM SCREEN & CRUSHER REFER CORRESPONDING CHUTE G.A. DRAWING.